ENVIRONMENTAL PARTNERS INC

Well Decommissioning Interim Measure Completion Report

Boeing Plant 2
Seattle/Tukwila, Washington

Prepared For:

The Boeing Company
P.O. Box 3707
M/C 1W-12
Seattle/Tukwila, WA 98124

December 31, 2013

Prepared By:

Environmental Partners, Inc.
295 N.E. Gilman Blvd., Suite 201
Issaquah, Washington 98027
(425) 395-0010

Douglas Kunkel, LG, LHG
Principal Hydrogeologist

Project Number: 17513.3.300.02

QR____ TR____

TABLE OF CONTENTS

TABLES

FIGURES

ATTACHMENTS

1.0 INTRODUCTION

This Well Decommissioning Interim Measure (IM) Completion Report has been prepared on behalf of The Boeing Company (Boeing) to document well decommissioning activities performed in support of demolition and construction activities at Boeing's Plant 2 facility in Seattle/Tukwila, Washington (Figure 1). Well decommissioning work was performed under the Well Decommissioning Interim Measure Work Plan (IM Work Plan) (EPI, 2010), which was approved by the United States Environmental Protection Agency (USEPA). Implementation of the IM and preparation of this Summary Report were performed under the Administrative Order on Consent, dated January 18, 1994, between Boeing and USEPA Region X.

1.1 Purpose of this Completion Report

The bulk of the wells scheduled for decommissioning in the IM Work Plan were decommissioned during the demolition and redevelopment work south of the South Park Bridge, which concluded in September 2012 and prior to the bank cutback and habitat construction work in early 2013. Other wells were protected during the construction work or remain intact outside of these construction areas.

This completion report is a summary record to support the evaluation of future monitoring well requirements throughout the property in conjunction with preparation of the South and North Corrective Measure Study (CMS) Reports. It documents well decommissioning work performed through December 2013 and updates the inventory of wells that remain at Plant 2.

1.2 Rationale for Well Decommissioning

Boeing began extensive property modifications in early 2010 by demolishing existing infrastructure and constructing new utilities, parking, and stormwater features in the central and southern portions of Plant 2. At approximately the same time, the King County South Park Bridge replacement project affected some Boeing monitoring wells. In September 2012 Boeing began habitat restoration work in the North Area and filling and grading of Lot 16, which is located immediately west of the 2-10 Area. Many wells were either decommissioned or protected in advance of these construction projects.

The well decommissioning schedule presented in the IM Work Plan was designed to allow important wells, such as shoreline monitoring wells and Electrical Manufacturing Facility (EMF) plume wells, to remain active for as long as reasonably possible to provide groundwater samples for their respective ongoing monitoring programs. In some cases the decommissioning schedule was modified, with USEPA's approval, to respond to changes in the demolition schedule.

Some wells originally classified as “wells to be protected” were later determined to be too close to demolition work to be effectively protected during the demolition work. In those cases Boeing informed USEPA of the issue and obtained prior approval for well decommissioning. This approach ensured protection of groundwater, which can be put at risk if the wellheads or well seals are damaged in the course of demolition and construction work.

In other cases, wells that were not anticipated to be damaged by demolition and construction work based on their distance from the actual subsurface work were inadvertently damaged beyond repair by equipment operation and required decommissioning to protect groundwater. In those cases, Boeing contacted USEPA to inform the Agency of the need to decommission the damaged well.

2.0 DECOMMISSIONING PROCESS

Wells approved for decommissioning or that were damaged beyond repair by onsite demolition and construction activities were decommissioned by a Washington State licensed driller in accordance with WAC 173-160-460 “Decommissioning Process for Resource Protection Wells.” An Environmental Partners, Inc. (EPI) geologist or professional engineer licensed by the State of Washington supervised the drillers and documented the well decommissioning process for each well decommissioning event.

Prior to any decommissioning work an EPI hydrogeologist reviewed the well construction logs for the wells to be decommissioned to determine if the wells were constructed according to WAC 173-160-420 “General Construction Requirements for Resource Protection Wells”. In addition, the well construction logs were provided to the drilling contractor for their review and to initiate preparation of well decommissioning permits as required by Ecology. Wells constructed according to WAC 173-160-420 specifications were decommissioned following the procedures specified in WAC 173-160-460(2).

According to the IM Work Plan, if wells were not constructed according to WAC 173-160-420 specifications or were too damaged to accept bentonite chips (for A-Level wells) or a tremie pipe (for B- and C-Level wells), decommissioning would be performed according to WAC 173-160-460(1). However, all of the wells that were decommissioned were constructed according to WAC 173-160-420 specifications. None of the damaged wells were damaged to the extent that prevented proper decommissioned by WAC 173-160-460(2).

Shallow, A-Level, monitoring wells were decommissioned by pouring bentonite chips into the well casing to approximately one-foot below ground surface (bgs) then hydrating the bentonite chips with potable water. Wells deeper than 30 ft. bgs (B- and C-Level wells) were decommissioned by grouting from the bottom to the top of the well with high-solids bentonite grout. Well drillers used a tremie pipe to ensure that grout filled the well from bottom to top of the well screen and casing. In all cases where wells were grouted, groundwater displaced by grout emplacement was captured and retained in 55-gallon drums for characterization and disposal.

The final step of well decommissioning was to remove the steel protective cover from the flush completion monument, fill the monument with concrete, and finish the concrete seal flush with the surrounding pavement surface.

3.0 DECOMMISSIONING SCHEDULE

Wells that have been decommissioned to date were sequenced to precede planned phases of demolition and construction work. As of the date of this report there have been 11 rounds of well decommissioning performed under the IM Work Plan. These 11 events are summarized in the following bullets:

- May 2010 - Seventeen wells were decommissioned prior to duct bank excavation. One well was decommissioned prior to initiation of the South Park Bridge project.

- June 2010 – Fifteen wells were decommissioned prior to Building 2-44 and 2-49 demolition. An additional nine wells were decommissioned prior to duct bank excavation.

- October 2010 – Five wells were decommissioned prior to Building 2-41 demolition for planned stormwater swale excavation.

- April 2011 – Forty wells were decommissioned prior to demolition activities over a large area of South Plant 2. One additional well was decommissioned in June 2011 after being damaged during demolition.

- August 2011 – Eight wells were decommissioned to allow demolition of the tunnels under the 2-40s Area buildings.

- October 2011 – Ten wells were decommissioned to allow installation of stormwater swales and other structures and to allow the removal of a fire line vault in the 2-66 Area.

- June 2012 – Twenty-nine wells were decommissioned to allow vadose zone soil excavation in the 2-66 sheetpile.

- May 2012 – Five wells were decommissioned for planned stormwater system excavation. One additional well was decommissioned because it was damaged beyond repair during slab removal in the 2-60s Area.

- August 2012 – Four wells were decommissioned in Lot 16 to allow planned grading and filling. Three wells were decommissioned in the North Area to allow habitat restoration work.

- December 2012 – Twenty wells were decommissioned in the Southwest Bank cutback portion of the 2-66 Area and along the shoreline in the 2-40s Area in preparation for Southwest Bank cutback and concrete slab removal for a habitat restoration project, respectively.

- August 2013 – Four Boeing wells and one Jorgensen Forge well were decommissioned on the Jorgensen Forge property immediately south of Plant 2 in preparation for soil excavation work associated with the property boundary outfall.

A total of 173 wells were decommissioned during the 11 decommissioning events listed.

4.0 DECOMMISSIONING RECORDS

Of the 173 wells decommissioned, 99 were completed in the A-Level, 58 in the B-Level, and 16 in the C-Level of the aquifer. Table 1 summarizes well locations, available well construction information including the total depth, screened interval, the reason that the well was decommissioned, and when well decommissioning was performed. Table 1 also presents the wells that were in or near the demolition and construction areas that were protected/saved. Table 2 lists all wells remaining at Plant 2 and the remaining Boeing wells on the Jorgensen Forge property.

Locations of wells that have been decommissioned and wells that have been protected are shown in Figures 2A, 2B, 3, and 4. Figure 2A depicts the wells that were decommissioned or protected in the area south of the South Park Bridge. Figure 2B shows an enlarged view of the wells near the 2-66 sheetpile, which had a high density of wells and was difficult to depict on Figure 2A. Figure 3 shows wells that were decommissioned, protected, or were not affected by demolition and construction in the central part of Plant 2. The locations of the three wells in the North Area and four wells in the Lot 16 parking area that were decommissioned in August 2012 are shown in Figure 4.

A Washington State licensed EPI geologist or professional engineer documented all decommissioning work and pertinent well decommissioning data were recorded in field notebooks. Copies of well decommissioning field notebooks, which are provided in Attachment A, contain the following information:

- Well location and well number;
- Start and end date and time;
- Installation (drilling) method;
- Well depth;
- Well diameter;
- Type of casing;
- Type, depth, and length of screened interval;
- Decommissioning procedure used; WAC 173-160-460(1), or WAC 173-160-460(2);
- Type and volume of grout mixture used;
- Surface completion;
- Firm completing the decommissioning; and
- Signature of person who performed the work.

Prior to decommissioning, the Washington State licensed drilling subcontractor prepared applicable "Notice of Intent to Decommission a Well" forms and submitted these forms to the Washington State Department of Ecology. Copies of the Notice of Intent to Decommission a Well forms prepared by the drilling contractor performing the decommissioning work are included in Attachment B.

5.0 REFERENCES

EPI. 2010 *Well Decommissioning Interim Measure Work Plan.* Prepared for The Boeing Company. March 12, 2010. Revised June 1, 2010, and August 5, 2011.

WAC 173-160-420 *General Construction Requirements for Resource Protection Wells.* Washington Administrative Code.

WAC 173-160-460 *Decommissioning Process for Resource Protection Wells.* Washington Administrative Code.

TABLES

Table 1: Status of Plant 2 Wells South of the South Park Bridge

Well	Northing	Easting	Total Depth (ft. bgs)	Screened Interval (ft. bgs)	Area	Year Decommissioned	Notes
Existing Shoreline Monitoring Wells							
PL2-013A	195888.4881	1275670.6940	20.82	6-20	2-66	2012	Decommissioned December 2012 for bank cutback work.
PL2-607A	195924.5	1275731.9	21	6-21	2-66	2011	Decommissioned October 2011 for stormwater system excavation.
PL2-015A	196001.6284	1275566.773	20.88	6-20.5	2-66	2012	Decommissioned December 2012 for bank cutback work.
PL2-015AR	196022	1275589	19.5	9.4-19	2-66	2012	Decommissioned May 2012 for excavation.
PL2-015B	196008.4253	1275573.957	50	40-50	2-66	2012	Decommissioned December 2012 for bank cutback work.
PL2-026C	196091.5168	1275649.094	85	75-85	2-66	2010	Decommissioned May 2010 for duct bank excavation.
PL2-030A	195840.127	1275756.423	30	25-30	2-66	2012	Decommissioned December 2012 for bank cutback work.
PL2-030C	195835.404	1275760.301	81.5	75.5-80	2-66		
PL2-036A	196072.6405	1275503.495	20.41	8-18	2-66		
PL2-036AR	196103	1275536	20.5	10.5-20	2-66	2011	Decommissioned October 2011 for fireline and vault removal.
PL2-043B	195825.948	1275769.123	56.5	50.5-55.5	2-66	2012	Decommissioned December 2012 for bank cutback work.
PL2-044B	195811.313	1275808.371	57	51.7-56	2-66		
PL2-214A	197378.5128	1274203.75	30.15	15-30	2-10	NA	Not affected by construction.
PL2-214B	197394.4537	1274214.747	60.08	45-60	2-10		
PL2-214C	197377	1274193	82	75.5-80	2-10		
PL2-227A	197122.1031	1274457.353	16.5	6-16.5	2-10		
PL2-232A	197241.7314	1274341.943	21.03	5-20	2-10		
PL2-233A	196929.8837	1274627.577	26.5	10-25	2-31	2010	Decommissioned May 2010 for bridge construction.
PL2-258A	197722.453	1273786.284	23.02	8-23	2-10	NA	Not affected by construction.
PL2-258B	197715.527	1273794.851	51.5	40-50	2-10		
PL2-258C	197708.6909	1273802.422	106.5	92-102	2-10		
PL2-271A	197566	1273995	30	20.2-29.7	2-10		
PL2-420A	196637.0977	1274993.975	29	14-29	2-40s	2012	Decommissioned December 2012 for slab removal work.
PL2-420C	196645.4	1275001.3	80.5	75-80	2-40s		
PL2-425A	196339.1102	1275445.826	18	8-18	2-40s	2011	Decommissioned October 2011 for stormwater system excavation.
PL2-425C	196340.3	1275437.1	82.5	77-82	2-40s	2010	Decommissioned May 2010 prior to duct bank excavation.
PL2-443A	196826.6461	1274807.579	23	8-23	2-40s	2012	Decommissioned December 2012 for slab removal work.
PL2-443C	196836.8	1274797.4	75.5	70-75	2-40s		
PL2-JF01AR	195768.3965	1275853.797	28	23.2-27	JF	2013	Decommissioned August 2013 for property line outfall excavation.
PL2-JF01B	195774.446	1275844.117	51.5	40-50	JF		
PL2-JF01C	195775.795	1275838.557	79	74-78.5	JF		
PL2-JF02A	198707.0644	1274675.733	18	8-18	JF		

Notes:

PL2-607A Decommissioned wells

PL2-214A Remaining wells

Table 1: Status of Plant 2 Wells South of the South Park Bridge

Well	Northing	Easting	Total Depth (ft. bgs)	Screened Interval (ft. bgs)	Area	Year Decommissioned	Notes
Potential Future Shoreline Monitoring Wells (excluding 2-10, North, and South Yard Areas)							
PL2-JF01A	195768.3965	1275853.797	18.92	7-17	JF	2013	Decommissioned August 2013 for property line outfall excavation.
PL2-009A	195896.6187	1275765.326	21.54	6-21	2-66	2011	Decommissioned October 2011 for stormwater system excavation.
PL2-009B	195901.9486	1275770.198	50.59	41-50	2-66		
PL2-009C	195890.9527	1275763.525	95.11	85-95	2-66		
PL2-013B	195933.4	1275722.6	45	39-44	2-66		
PL2-013C	195924.2	12275731.9	85	80-85	2-66		
PL2-014AR	195979.4	1275645.1	21	6-21	2-66	2012	Decommissioned May 2012 for excavation.
PL2-014B	195976.5	1275649/1	45.5	40.5-45.5	2-66		
PL2-015BR	196028	1275591.2	45	40-45	2-66		
PL2-036B	196113.2	1275569.5	45	40-45	2-66	2011	Decommissioned October 2011 for stormwater system excavation.
PL2-036C	198618.3	1275475	85.31	80-85	2-66		
PL2-420B	196642.3	1275004.6	45.5	35-45	2-40s	2012	Decommissioned December 2012 for slab removal work.
PL2-443B	196832.6	1274801	45.5	35-45	2-40s		
PL2-444A	196767	1274878	26.5	10-25	2-40s		
Interim Measures Wells							
OA-11 FCMS							
PL2-007AR	195818.774	1275875.321	17.5	7-17	2-66	NA	Protected and retained during construction.
OA-12 IM							
OA-12-01A	196479.000	1276061.800	25.5	15-25	2-60s	NA	Protected and retained during construction.
OA-12-01B	196474.200	1276067.100	45.5	35-45	2-60s		
OA-12-02A	196447.000	1276099.000	25.5	15-25	2-60s		
OA-12-02B	196441.500	1276104.000	45.5	35-45	2-60s		
OA-12-03A	196414.500	1276134.700	25.5	15-25	2-60s		
OA-12-03B	196408.5	1276141.7	45.5	35-45	2-60s	2012	Decommissioned May 2012 due to irrepairable damage to casing during demolition.
PL2-315A	196409.346	1276063.685	19	8.5-18.5	2-60s	NA	Protected and retained during construction.
PL2-315B	196396.8971	1276066.426	51.5	40-50	2-60s		
PL2-330A	196357.767	1276030.701	18	8-18	2-60s		
PL2-330B	196362.736	1276024.686	50	40-50	2-60s		
OA-12-04A	196325.700	1275991.500	25.5	15-25	2-60s		
OA-12-04B	196319.900	1275998.000	45.5	35-45	2-60s		
OA-12-05B	196246.600	1275929.700	45.5	35-45	2-60s		

Notes:

PL2-607A Decommissioned wells

PL2-214A Remaining wells

Table 1: Status of Plant 2 Wells South of the South Park Bridge

Well	Northing	Easting	Total Depth (ft. bgs)	Screened Interval (ft. bgs)	Area	Year Decommissioned	Notes
OA-9 IM							
PL2-310A	196467.5884	1275754.609	19	9-19	2-60s	2010	Decommissioned June 2010 prior to Building 2-44, Building 2-49 demolition.
PL2-311A	196497.6732	1275782.804	18	8-18	2-60s		
PL2-604A	196456.05	1275743.69	21.5	6-21	2-60s		
PL2-605AR	196517.4	1275780.24	21.5	6-21	2-60s		
PL2-606A	196508.55	1275796.81	21.5	6-21	2-60s		
BV-01	196486.9	1275765.2	10.5	3-10	2-60s		
BV-02	196511.1	1275828.3	10.5	3-10	2-60s		
BV-03	196486.7	1275845.1	10.5	3-10	2-60s		
BV-04	196462.6	1275823.2	10.5	3-10	2-60s		
BV-05	196436.9	1275800.0	10.5	3-10	2-60s		
BV-06	196415.2	1275780.2	10.5	3-10	2-60s		
2-66 Sheetpile ERD IM							
PL2-DDC2-66-1	195878.100	1275885.630	32	25-30	2-66	2012	Decommissioned January 2012 for excavation work within the 2-66 sheetpile.
PL2-DDC2-66-2	195845.830	1275827.110	31.5	25-30	2-66		
PL2-DDC2-66-1D	195878.100	1275885.630	28	26-28	2-66		
PL2-DDC2-66-1S	195878.100	1275885.630	10	8-10	2-66		
PL2-DDC2-66-2D	195845.830	1275827.110	29	26-28	2-66		
PL2-DDC2-66-2S	195845.830	1275827.110	10	8-10	2-66		
PL2-041AA	195829.168	1275787.282	18	15-18	2-66		
PL2-008B	195822.133	1275802.376	50.7	40.5-50	2-66		
PL2-008C	195825.943	1275796.396	96	80.5-95	2-66		
PL2-010A	195845.345	1275839.895	21.2	6-20	2-66		
PL2-017A	195887.459	1275820.158	21.5	6-20.5	2-66		
PL2-021A	195882.699	1275877.112	19.9	4.5-19	2-66		
PL2-021B	195878.277	1275872.293	49	38.5-48	2-66		
PL2-021C	195877.234	1275878.079	92.1	81.5-91	2-66		
PL2-031A	195840.042	1275768.031	30	25-30	2-66		
PL2-032A	195927.783	1275918.744	30	25-30	2-66		
PL2-035A	195831.094	1275846.311	30	25-30	2-66		
PL2-041AB			50.5	48.5-50.5	2-66		
PL2-042AA			16	14-16	2-66		
PL2-042AB			50	48-50	2-66		
PP-1B-I	195897.325	1275875.908	50.5	48-50	2-66		
PP-2B-I	195824.129	1275837.947	50.5	48-50	2-66		
PP-2B-O	195822.301	1275840.300	50.5	48-50	2-66		
PP-3A-I	195861.505	1275851.046	20.5	18-20	2-66		
PP-3B-I	195861.413	1275844.443	50.5	48-50	2-66		
PP-3C-I	195866.991	1275847.643	90.5	88-90	2-66		
PP-4B-I	195830.968	1275868.308	50.5	48-50	2-66		
PP-4B-O	195828.348	1275870.456	50.5	48-50	2-66		
PP-5B-I	195899.058	1275811.196	50.5	48-50	2-66		

Notes:

PL2-607A Decommissioned wells

PL2-214A Remaining wells

Table 1: Status of Plant 2 Wells South of the South Park Bridge

Well	Northing	Easting	Total Depth (ft. bgs)	Screened Interval (ft. bgs)	Area	Year Decommissioned	Notes
EMF Plume IM (2-40s Area Parking Lot)							
EMF-IW-8	197411.2	1275637.1	49	39-49	2-40s	NA	Protected and retained during construction.
EMF-IW-9	197388.8	1275661.9	49	39-49	2-40s		
EMF-IW-10	197367.0	1275685.1	50	40-50	2-40s		
EMF-IW-11	197345.9	1275708.4	50	40-50	2-40s		
EMF-IW-43	197304.8	1275744.2	50	40-50	2-40s		
EMF-IW-44	197276.4	1275773.7	50	40-50	2-40s	2012	Decommissioned May 2012 due to irrepairable damage to casing during demolition.
EMF-WF-30	197340.7	1275660.8	50	40-50	2-40s	NA	Protected and retained during construction.
EMF-WF-36	197446.4	1275756.3	50	40-50	2-40s		
PL2-440A	197453.6322	1275746.487	18.5	8-18	2-40s		
PL2-440B	197450	1275746	45.5	40-45	2-40s		
PL2-440C	197451.1	1275749.2	85	79.5-84.5	2-40s		Not affected by construction.
PL2-441A	197690.4469	1275487.108	19	8-18	2-40s		
PL2-441BR	197674.8	1275481.3	45.5	40.5- 45.5	2-40s		
PL2-441C	197678.6	1275478.1	82	76.5-81.5	2-40s		
PL2-608A	197129.3	1276102.8	21	6-21	2-40s		
PL2-608B	197125.1	1276107.4	45.5	40.5-45.5	2-40s		
PL2-608C	197122.5	1276101.6	84	79-84	2-40s		
EMF Plume IM (2-40 Building)							
EMF-IW-1	197130.9	1275421.0	45	35-45	2-40s	2011	Decommissioned August 2011 for Tunnel A excavation.
EMF-IW-2	197117.3	1275435.7	45	35-45	2-40s		
EMF-IW-3	197103.5	1275450.3	45	35-45	2-40s		
EMF-IW-7	197084.2	1275470.3	40	30-40	2-40s		
EMF-IW-39	197063.0	1275493.4	50	40-50	2-40s		
EMF-IW-40	197152.0	1275398.5	47	37-47	2-40s		
EMF-IW-41	197171.0	1275378.5	50	40-50	2-40s		
EMF-IW-42	197192.0	1275356.5	50	40-50	2-40s		
EMF-WF-31	197044.3	1275218.7	39	29-39	2-40s	NA	Protected and retained during construction.
EMF-WF-33	197079.2	1275374.6	45	35-45	2-40s		
EMF-WF-34	197055.1	1275317.2	45	35-45	2-40s		
EMF-WF-35	197023.4	1275260.0	45	35-45	2-40s		

Notes:

PL2-607A Decommissioned wells

PL2-214A Remaining wells

Table 1: Status of Plant 2 Wells South of the South Park Bridge

Well	Northing	Easting	Total Depth (ft. bgs)	Screened Interval (ft. bgs)	Area	Year Decommissioned	Notes
EMF Plume IM (2-41 Building)							
EMF-IW-4	196897.1	1275089.6	45	35-45	2-40s	2011	Decommissioned June 2011 following damage during tunnel removal.
EMF-IW-5	196874.0	1275114.0	40	30-40	2-40s	NA	Protected and retained during construction.
EMF-IW-6	196851.7	1275138.5	40	30-40	2-40s		
EMF-IW-38	196831.8	1275161.0	50	40-50	2-40s		
EMF-IW-37	196916.7	1275066.2	50	40-50	2-40s		
EMF-WF-32	196707.4	1274946.9	35	25-35	2-40s	2012	Decommissioned December 2012 for slab removal work.
PL2-442A	196748.5543	1275013.196	18	8-18	2-40s	2010	Decommissioned October 2010 for planned stormwater swale placement.
PL2-442B	196749.5	1275014	45.5	35-45	2-40s		
PL2-442C	196751.7	1275009.7	80.5	75-80	2-40s		
EMF-WF-39	196760.26	1274885.62	45	35-45	2-40s	2012	Decommissioned December 2012 for slab removal work.
EMF-WF-40	196694.66	1274956.29	32	22-32	2-40s		
EMF-WF-41			70	60-70	2-40s	NA	Protected and retained during construction.
Other 2-31 Area Wells							
PL2-501A	197303.3024	1274930.303	20.5	10-20	2-31	2011	Decommissioned April 2011 for Building 2-31 demolition.
PL2-501B	197300.3464	1274937.211	50.5	40-50	2-31		
PL2-501C	197297.6254	1274944.929	78.5	68-78	2-31		
PL2-502A	197110.8655	1274798.368	18	8-18	2-31		
PL2-503A	197531.7809	1274941.327	17.5	7-17.5	2-31	NA	Not affected by construction.
PL2-504A	197570.0865	1274990.552	14.7	4.2-14.7	2-31		
PL2-505A	197585.3839	1274908.443	24.5	9-24.5	2-31		
PL2-507A	198199.8943	1274944.021	18	8-18	2-31		
PL2-507B	198169.6	1274967.6	45.5	35-45	2-31		
PL2-507C	198185.4	1274948.6	75.5	65-75	2-31		
PL2-508A	197342.6062	1274962.046	19	9-19	2-31	2011	Decommissioned April 2011 for AOC 2-31.21 excavation.
PL2-509A	197344.644	1274954.656	18.9	8-18	2-31		
PL2-509B	197342.06	1274952.296	50.5	40-50	2-31		
Other 2-40s Area Wells							
PL2-321A	196419.014	1275649.363	18	8-18	2-40s	2010	Decommissioned May 2010 for building demolition.
PL2-401A	197159.0309	1275105.281	23	12-22	2-40s	2010	Decommissioned October 2010 for planned stormwater swale placement
PL2-410A	196661.3479	1275566.594	21.5	11-21	2-40s		
PL2-425B	196340.5	1275442.4	45.5	40-45	2-40s	2010	Decommissioned May 2010 for duct bank excavation
PL2-430A	196940.2226	1274862.459	25	15-25	2-40s	2010	Decommissioned June 2010 for duct bank excavation
PL2-435A	197142.8391	1275496.11	19	8-18	2-40s	2011	Decommissioned April 2011 for demolition.
PL2-435B	197136	1275491.6	45	39.5-44.5	2-40s		
PL2-435C	197135.1	1275498.2	84	78.5-83.5	2-40s		
PL2-445A	197350	1275654	20	10-20	2-40s	NA	Not affected by construction.
PL2-446A	196943.045	1274838.135	18.5	8-18	2-40s	2010	Decommissioned June 2010 for duct bank excavation
PL2-447A	196992.86	1274859.891	18.5	8-18	2-40s		

Notes:

PL2-607A Decommissioned wells

PL2-214A Remaining wells

Table 1: Status of Plant 2 Wells South of the South Park Bridge

Well	Northing	Easting	Total Depth (ft. bgs)	Screened Interval (ft. bgs)	Area	Year Decommissioned	Notes
Other 2-60s Area Wells							
PL2-312A	196856.6879	1276081.086	18	8-18	2-60s	2010	Decommissioned June 2010 for building demolition.
PL2-314A	196685.1499	1276175.829	18.5	8.5-18.5	2-60s	2011	Decommissioned April 2011 for demolition.
PL2-316A	196655.2527	1276215.709	18	8-18	2-60s		
PL2-316B	196650.2538	1276213.034	50	40-50	2-60s		
PL2-316C	196660.2758	1276204.581	85	75-85	2-60s		
PL2-317AR	196178.782	1276200.795	18	8-18	2-60s		
PL2-319A	196978.7256	1276290.399	18	8-18	2-60s	NA	Not affected by construction.
PL2-325A	196235.2995	1275841.271	18	8-18	2-60s	2011	Decommissioned April 2011 for demolition.
PL2-325B	196237.4115	1275832.947	50	45-50	2-60s		
PL2-326A	196747.296	1276306.189	18.5	8-18	2-60s		
PL2-326B	196742.764	1276311.532	50.5	40-50	2-60s		
PL2-327A	196581.34	1276101.59	19	8.5-18.5	2-60s		
PL2-327B	196587.606	1276095.551	50.5	40-50	2-60s		
PL2-328A	196467.832	1276236.195	18.5	8-18	2-60s		
PL2-328B	196470.705	1276232.987	50.5	40-50	2-60s		
PL2-329A	196418.579	1275991.348	18.5	8-18	2-60s		
PL2-329B	196424.067	1275984.836	50.5	40-50	2-60s		
PL2-331A	196333.318	1276093.248	18.5	8-18	2-60s		
PL2-331B	196337.412	1276088.981	50.5	40-50	2-60s		
PL2-332A	196370.431	1275726.922	18.5	8-18	2-60s	2010	Decommissioned June 2010 for building demolition.
Other 2-66 Area Wells							
EW-1			20	9-19	2-66	2010	Decommissioned June 2010 for duct bank excavation.
PL2-002A	196003.2285	1275964.947	20	4.5-19	2-66	2010	Decommissioned May 2010 for duct bank excavation.
PL2-002B	196003.7534	1275969.569	49	39-48	2-66		
PL2-002C	195996.4235	1275963.1	94.5	85-94.5	2-66		
PL2-004A	195870.7879	1275929.813	16.9	6.5-16.5	2-66	2011	Decommissioned April 2011 for demolition.
PL2-005A	195850.9588	1275970.933	17.1	7-16.7	2-66		
PL2-005B	195847.2878	1275967.803	51.4	41-50.5	2-66		
PL2-005C	195856.7848	1275967.736	93.1	83-92	2-66		
PL2-006AR	195814.993	1275941.14	16.5	6-16	2-66		
PL2-011A	195943.1434	1275806.756	21.1	5.5-20	2-66	2010	Decommissioned June 2010 for duct bank excavation.
PL2-012A	195983.6846	1275743.224	21.5	6-20.5	2-66		
PL2-013AR	195941	1275725	24	14.7-23.3	2-66	2011	Decommissioned April 2011 for demolition.
PL2-014A	195939.4403	1275617.631	21.1	5.5-20	2-66		
PL2-018A	195963.8149	1275887.254	20.5	5-20	2-66	2010	Decommissioned May 2010 for duct bank excavation.
PL2-019A	195972.2121	1275839.907	21.37	6-21	2-66		
PL2-020A	196035.3143	1275764.668	20.5	6-20.5	2-66		
PL2-022A	196006.8587	1275919.88	20	6-19.5	2-66	2010	Decommissioned June 2010 for duct bank excavation.

Notes:

PL2-607A Decommissioned well.

PL2-214A Wells remaining and not affected by construction.

Table 1: Status of Plant 2 Wells South of the South Park Bridge

Well	Northing	Easting	Total Depth (ft. bgs)	Screened Interval (ft. bgs)	Area	Year Decommissioned	Notes
PL2-023A	195999.621	1275862.699	20.5	5.5-20	2-66	2010	Decommissioned May 2010 for duct bank excavation.
PL2-024A	195997.4332	1275810.671	19.7	4-19	2-66		
PL2-025A	195952.1428	1275920.886	19.7	4.5-19	2-66		
PL2-026A	196096.4948	1275649.56	20.5	6-19.5	2-66		
PL2-026B	196106.0307	1275661.82	50	40-50	2-66		
PL2-027A	195816.1686	1276029.596	18	8-18	2-66	2011	Decommissioned April 2011 for demolition.
PL2-028A	196094.4235	1275699.1	17.5	7.5-17.5	2-66	2010	Decommissioned June 2010 for duct bank excavation.
PL2-028B	196102.1615	1275702.996	49.5	39.5-49.5	2-66		
PL2-029A	195847.056	1275726.971	18	8-18	2-66	2011	Decommissioned April 2011 for demolition.
PL2-033A	195936.4248	1275926.056	30	25-30	2-66	2010	Decommissioned May 2010 for duct bank excavation.
PL2-033AR	195938	1275928	31	25.7-30.2	2-66		
PL2-034A	195820.339	1275837.069	30	25-30	2-66	2011	Decommissioned April 2011 for demolition.
PL2-037A	196041.0265	1275526.895	18	8-18	2-66		
PL2-038A	196144.5745	1275477.836	23.5	13.5-23.5	2-66	2010	Decommissioned June 2010 for duct bank excavation.
PL2-039A	196315.5624	1275622.664	20	10-20	2-66		
PL2-040AA			18	15-18	2-66	2012	Decommissioned December 2012 for bank cutback work.
PL2-040AB			50	47-50	2-66		
PP-1B-O	195898.850	1275873.976	50.5	48-50	2-66	2011	Decommissioned April 2011 for demolition.
PP-5B-O	195900.664	1275809.547	50.5	48-50	2-66		
North Area Wells							
PL2-609A	198430.000	1273035.600	20.76	6-21	North	2012	Decommissioned August 2012 for habitat work.
PL2-610AR	198145.900	1273308.700	21.12	6-21	North		
PL2-610B	198152.300	1273311.200	44.56	35-45	North		
Lot 16 Wells							
BOC-MW-04			19	9-19	2-10	2012	Decommissioned August 2012 for grading and filling in Lot 16.
BOC-MW-05			14	4-14	2-10		
BOC-MW-06			14	4-14	2-10		
BOC-MW-07			14	4-14	2-10		

South Yard Area Wells

Not affected by constuction.

Notes:

PL2-607A Decommissioned well.

PL2-214A Wells remaining and not affected by construction.

Table 2: Wells Remaining at Plant 2

Well ID	Northing	Easting	Location	Total Depth (ft)	Casing Diameter (inches)	Depth to Top of Screen (ft)	Depth to Bottom of Screen (ft)
B-1-92					1.5	N/A	N/A
MW-E			Bldg. 2-18 & 16th Ave.	19.11	1.5		
PL2-007AR	195818.774	1275875.321	Building 2-66	17.5	2	7	17
PL2-106AR	195856.586	1276753.580	South Yard	16	2	8	16
PL2-106B	195857.119	1276748.236	South Yard	49.04	2	39	49
PL2-106C	195868.098	1276755.852	South Yard	91.43	2	82.5	92.5
PL2-110C	195841.787	1276554.981	South Yard	95.82	2	82	92
PL2-112A	195806.8796	1276439.688	South Yard	18.5	1.5	8.5	18.5
PL2-112B	195819	1276443	South Yard	49.47	2	40	50
PL2-113A	195834.7986	1276440.933	South Yard	18.41	1.5	8	18
PL2-115A	195800.1593	1276504.606	South Yard	17.45	1.5	7.5	17.7
PL2-116A	195806.4478	1276398.032	South Yard	16.99	1.5	7.5	17.8
PL2-117A	195799.7825	1276464.04	South Yard	19	1.5	7.9	17.9
PL2-120A	196070.0344	1276576.923	South Yard	18.26	2	8	18
PL2-151A	195912.949	1277088.656	South Yard	16	2	6	16
PL2-151B	195919.696	1277081.225	South Yard	50	2	45	50
PL2-151C	195898.371	1277082.714	South Yard	80	2	75	80
PL2-152A	196166.606	1276965.112	South Yard	16	2	6	16
PL2-152B	196175.843	1276962.073	South Yard	50	2	45	50
PL2-152C	196179.163	1276956.340	South Yard	85	2	80	85
PL2-153A	196114.615	1276755.691	South Yard	16	2	6	16
PL2-153B	196111.536	1276750.991	South Yard	50	2	45	50
PL2-153C	196116.972	1276749.999	South Yard	80	2	80	85
PL2-154A	196014.182	1276803.669	South Yard	16	2	6	16
PL2-154B	196017.054	1276797.753	South Yard	50	2	45	50
PL2-154C	196009.829	1276799.237	South Yard	85	2	80	85
PL2-155A	195861.941	1276880.555	South Yard	16	2	6	16
PL2-155B	195854.628	1276877.810	South Yard	50	2	45	50
PL2-155C	195854.952	1276885.807	South Yard	85	2	80	85
PL2-156A	195862.335	1276945.083	South Yard	16	2	6	16
PL2-201A	198311.6877	1274399.666	Building 2-18	18.92	2	9	19
PL2-201B	198295.5	1274394.8	2-10 Area	46	2	35	45
PL2-201C	198291.5	1274405.3	2-10 Area	85	2	65.5	75.5
PL2-202A	198197.8891	1274364.563	Building 2-18	18.38	2	8	18
PL2-203A	198259.7678	1274199.202	Building 2-120	18.63	2	9	19
PL2-204A	197804.19	1274779.798	Building 2-15 Parking Lot	17.76	2	7.5	17.5
PL2-206A	197572.9345	1274575.53	Building 2-15	17.47	2	7.5	17.5
PL2-207A	197895.2262	1274289.982	OA5-Fueling Area	18.51	2	8	18
PL2-208A	197148.1921	1274449.322	Building 2-09	16.94	2	7	16.5
PL2-209A	197434.6772	1274286.905	Building 2-10	18	2	8	17.5
PL2-209B	197440.4883	1274278.223	Building 2-10	55	2	40	55
PL2-210A	197650.582	1274029.672	Building 2-10	16.35	2	6	16
PL2-211A	197876.1427	1273772.675	Building 2-10	18.87	2	9	19
PL2-212A	197843.5968	1273967.687	Building 2-10	15.11	2	6	16
PL2-212B	197819.994	1273945.962	Building 2-10	55.18	2	40	55
PL2-213A	197321.2136	1274272.089	Building 2-10	30	2	15	30
PL2-213B	197319	1274288	Building 2-10	30.5	2	25.7	30.2
PL2-214A	197378.5128	1274203.75	Building 2-10	30.15	2	15	30
PL2-214B	197394.4537	1274214.747	Building 2-10	60.08	2	45	60

Table 2: Wells Remaining at Plant 2

Well ID	Northing	Easting	Location	Total Depth (ft)	Casing Diameter (inches)	Depth to Top of Screen (ft)	Depth to Bottom of Screen (ft)
PL2-214C	197377	1274193	Building 2-10	82	2	75.5	80
PL2-216A	197428.3059	1274143.955	Building 2-10	30.04	2	15	30
PL2-217A	197701.0523	1273944.626	Building 2-10	30.14	2	15	30
PL2-218A	197771.8086	1273844.08	Building 2-10	31.5	2	15	30
PL2-218B	197756.8947	1273835.2	Building 2-10	61.5	2	45	60
PL2-222A	197885.7539	1274343.034	OA5-Fueling Area	19.36	2	9	19
PL2-223A	197873.7485	1274236.1	OA5-Fueling Area	20	2	14	19
PL2-224A	198164.7681	1274375.982	Building 2-18	35	2	15	35
PL2-227A	197122.1031	1274457.353	Building 2-09	16.5	2	6	16.5
PL2-227B	197119.5	1274457.7	2-10 Area	45	2	35	45
PL2-227C	197122.8	1274463.8	2-10 Area	90	2	74.5	84.5
PL2-230A	197169.5695	1274356.137	Building 2-10	23.21	2	5	20
PL2-231A	197150.3295	1274375.751	Building 2-10	21.5	2	11.5	21.5
PL2-232A	197241.7314	1274341.943	Building 2-10	21.03	2	11.5	21.5
PL2-235A	197283.387	1274498.071	Building 2-10	18.5	2	8	18
PL2-240A	197634.464	1274032.871	Building 2-10	21.25	2	8	18
PL2-241A	197838.8524	1274268.745	OA5-Fueling Area	22.35	4	2.5	22.5
PL2-242A	197917.4063	1274243.887	OA5-Fueling Area	21.95	4	7.5	22.5
PL2-243A	197962.8697	1274345.073	OA5-Fueling Area	24.41	4	7.5	22.5
PL2-244A	197738.7888	1273826.385	Building 2-10	19.22	2	15	20
PL2-245A	197749.9477	1273837.006	Building 2-10	19.67	2	15	20
PL2-246A	197821.3734	1273853.697	Building 2-10	19.38	2	15	20
PL2-247A	197810.7994	1273865.707	Building 2-10	21.5	2	15	20
PL2-248A	197853.6556	1274015.213	Building 2-10	19.67	2	15	20
PL2-249A	197846.0446	1274007.528	Building 2-10	19.68	2	15	20
PL2-252A	197393.4696	1274239.591	Building 2-10	17.61	2	13.5	18.5
PL2-253A	197399.3165	1274244.873	Building 2-10	17.44	2	12	17
PL2-254A	197333.6014	1274300.527	Building 2-10	17.31	2	13.5	18.5
PL2-255A	197342.5063	1274307.899	Building 2-10	17.51	2	12.5	17.5
PL2-256A	197447.245	1274339.324	Building 2-10	19	2	13	18
PL2-257A	197456.3759	1274346.969	Building 2-10	19	2	13	18
PL2-258A	197722.453	1273786.284	Building 2-10	23.02	2	8	23
PL2-258B	197715.527	1273794.851	Building 2-10	51.5	2	40	50
PL2-258C	197708.6909	1273802.422	Building 2-10	106.5	2	92	102
PL2-259B	197928.9023	1274031.853	Building 2-10	51.5	2	40	50
PL2-260A	197977.8374	1274617.314	Building 2-15 Parking	18.03	2	8	18
PL2-261B	197305.6246	1274275.852	Building 2-10	49.73	2	40	50
PL2-262B	197529.2377	1274343.192	Building 2-10	49.53	2	40	50
PL2-263AA			Building 2-10			14	16
PL2-263AB			Building 2-10			23	25
PL2-264AA			Building 2-10			14	16
PL2-264AB			Building 2-10			23	25
PL2-265AA			Building 2-10			14	16
PL2-265AB			Building 2-10			23	25
PL2-266A	197355	1274273	Building 2-10	31	2	26	30.2
PL2-267A	197406	1274223	Building 2-10	31	2	26	30.5
PL2-268A	197750	1273812	Building 2-10	35	2	30	34.5
PL2-268AR	197746	1273816	Building 2-10	35	2	30	34.5
PL2-269A	197719	1273843	Building 2-10	36	2	31	35.7

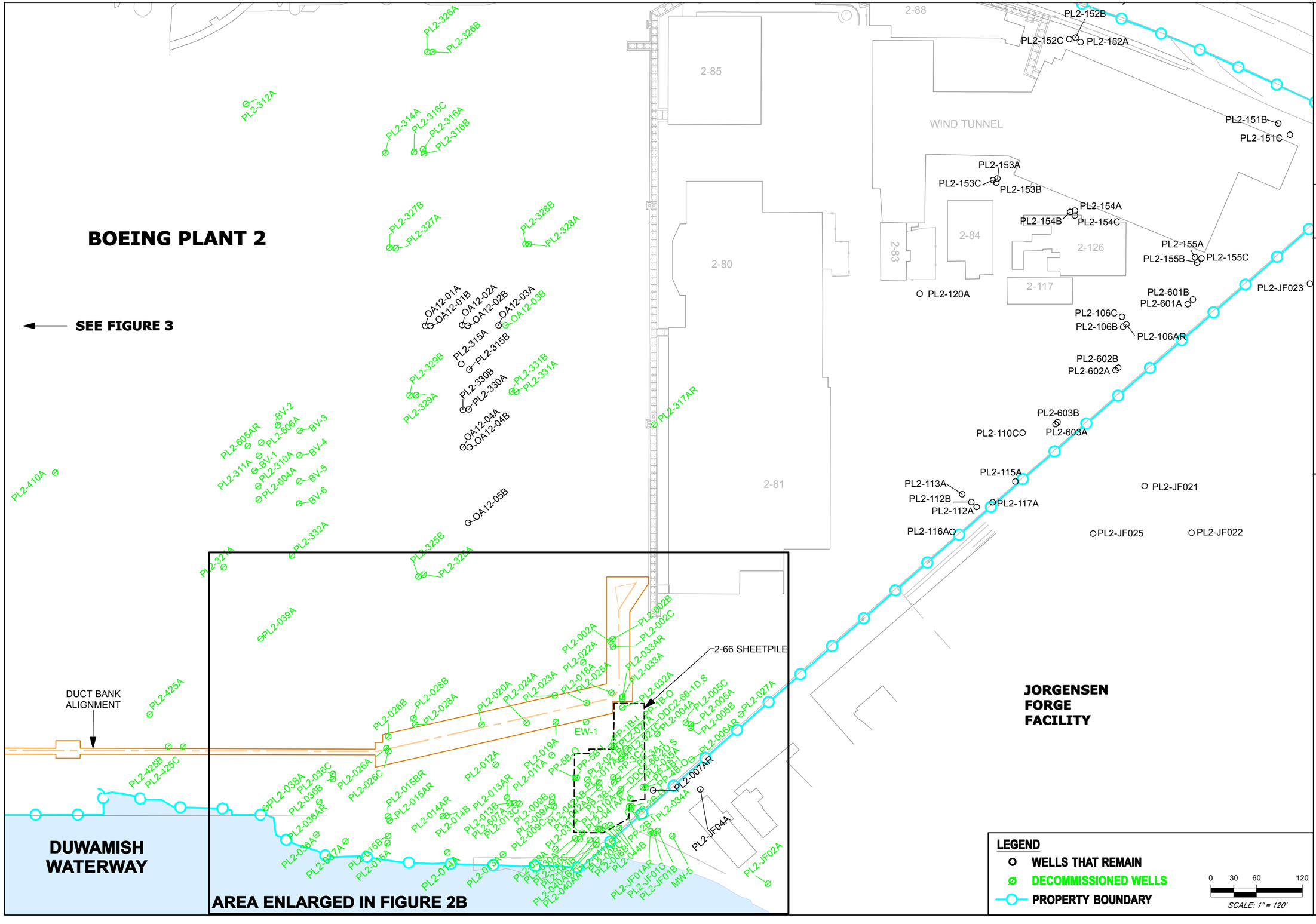
Table 2: Wells Remaining at Plant 2

Well ID	Northing	Easting	Location	Total Depth (ft)	Casing Diameter (inches)	Depth to Top of Screen (ft)	Depth to Bottom of Screen (ft)
PL2-270A	198791.9761	1274289.19	E Marg &Webster (North Area)	17.41	2	12.5	17.5
PL2-270B	198782.8	1274296.6	E Marg &Webster (North Area)	43.92	2	35	45
PL2-271A	197566	1273995	Building 2-10	30.5	2	20.2	29.7
PL2-272A	197727	1273895	Building 2-10	36	2	31.3	35.8
PL2-274AA			Building 2-10			14	17
PL2-274AB			Building 2-10			27	30
PL2-275AA			Building 2-10			14	17
PL2-275AB			Building 2-10			27	30
PL2-276AA			Building 2-10			14	17
PL2-276AB			Building 2-10			27	30
PL2-315A	196409.346	1276063.685	Building 2-63	19	2	8.5	18.5
PL2-315B	196396.8971	1276066.426	Building 2-63	49.62	2	40	50
PL2-319A	196978.7256	1276290.399	Building 2-45	17.73	2	8	18
PL2-330A	196357.767	1276030.701	Mid. Building 2-65	18	2	8	18
PL2-330B	196362.736	1276024.686	Mid. Building 2-65	50	2	40	50
PL2-440A	197453.6322	1275746.487	Building 2-40	17.33	2	8	18
PL2-440B	197450	1275746	Building 2-40	45.5	2	40	45
PL2-440C	197451.1	1275749.2	Building 2-40	85	2	79.5	84.5
PL2-441A	197690.4469	1275487.108	NE of Building 2-40	17.13	2	8	18
PL2-441BR	197674.8	1275481.3	NE of Building 2-40	45.5	2	35	45
PL2-441C	197678.6	1275478.1	NE of Building 2-40	82	2	76.5	81.5
PL2-445A	197350	1275654	Building 2-40	19.45	2	10	20
PL2-503A	197531.7809	1274941.327	Building 2-38	17.5	2	7	17.5
PL2-504A	197570.0865	1274990.552	Building 2-38	14.06	4	4.2	14.7
PL2-505A	197585.3839	1274908.443	Building 2-38	24.21	2	9	24.5
PL2-506A	197611.8446	1274955.75	Building 2-38	30	2	10	30
PL2-507A	198199.8943	1274944.021	Building 2-25	18.21	2	8	18
PL2-507B	198169.6	1274967.6	Building 2-31	45.5	2	35	45
PL2-507C	198185.4	1274948.6	Building 2-31	75.5	2	65	75
PL2-601A	195822	1276832	South Yard Area	21	2	6	21
PL2-601B	195822	1276841	South Yard Area	50.5	2	45	50
PL2-602A	195821	1276702	South Yard Area	21	2	6	21
PL2-602B	195821	1276707	South Yard Area	50	2	44.5	49.5
PL2-603A	195821	1276595	South Yard Area	21.5	2	6	21
PL2-603B	195821	1276599	South Yard Area	50	2	44.5	49.5
PL2-608A	197129.3	1276102.8	2-40s Area	21	2	5.5	20.5
PL2-608B	197125.1	1276107.4	2-40s Area	45.5	2	40	45
PL2-608C	197122.5	1276101.6	2-40s Area	84	2	78.5	83.5
PL2-611A	197901.1	1273544.1	North Area	21.21	2	6	21
PL2-612A	198711	1273335.1	North Area	20.17	2	6	21
PL2-612B	198714.8	1273339.4	North Area	44.54	2	35	45
PL2-BF01A	196085.9316	1277352.766	Boeing Field-14th Ave	17.54	2	8	18
PL2-BF02A	198707.0644	1274675.733	Boeing Field-Jorgensen	17.36	2	8	18
PL2-BF03A	197515.443	1275747.517	E. Marginal Way		2	8	18
PL2-JF003			Jorgensen Forge		2	5	20

Table 2: Wells Remaining at Plant 2

Well ID	Northing	Easting	Location	Total Depth (ft)	Casing Diameter (inches)	Depth to Top of Screen (ft)	Depth to Bottom of Screen (ft)
PL2-JF004			Jorgensen Forge		2	5	20
PL2-JF006	195362.5762	1276113.078	Jorgensen Forge	22.38	2	NA	NA
PL2-JF007	195128.4633	1277254.801	Jorgensen Forge	NM	2	NA	NA
PL2-JF008	195551.0228	1277156.034	Jorgensen Forge	19.64	2	5	20
PL2-JF009	195649.0137	1277128.929	Jorgensen Forge	19.84	2	5	20
PL2-JF010	195437.736	1277046.304	Jorgensen Forge	NM	2	10	20
PL2-JF011	195448.419	1277168.572	Jorgensen Forge	15.85	2	5	20
PL2-JF015	195360.2452	1277173.67	Jorgensen Forge	15.85	2	NA	NA
PL2-JF016			Jorgensen Forge		2	6	16
PL2-JF018			Jorgensen Forge		2	6	16
PL2-JF019			Jorgensen Forge		2	6	16
PL2-JF020			Jorgensen Forge		2	6	16
PL2-JF021	195681.1876	1276628.058	Jorgensen Forge	NM	2	6	16
PL2-JF022	195593.4422	1276632.783	Jorgensen Forge	NM	2	6	16
PL2-JF023	195733.9023	1276970.355	Jorgensen Forge	NM	2	6	16
PL2-JF024			Jorgensen Forge	NM	2	6	20
PL2-JF025	195679.9825	1276534.962	Jorgensen Forge	19.44	2	6	20
PL2-JF04A	195776.926	1275922.707	Jorgensen Forge	18	2	8	18
OA-12-01A	196479.000	1276061.800	2-60s Area	25.5	4	15	25
OA-12-01B	196474.200	1276067.100	2-60s Area	45.5	4	35	45
OA-12-02A	196447.000	1276099.000	2-60s Area	25.5	4	15	25
OA-12-02B	196441.500	1276104.000	2-60s Area	45.5	4	35	45
OA-12-03A	196414.500	1276134.700	2-60s Area	25.5	4	15	25
OA-12-04A	196325.700	1275991.500	2-60s Area	25.5	2	15	25
OA-12-04B	196319.900	1275998.000	2-60s Area	45.5	2	35	45
OA-12-05B	196246.600	1275929.700	2-60s Area	45.5	2	35	45
EMF-WF-30	197340.7	1275660.8	EMF Plume	50	2	40	50
EMF-WF-31	197044.3	1275218.7	EMF Plume	39	2	29	39
EMF-WF-33	197079.2	1275374.6	EMF Plume	45	2	35	45
EMF-WF-34	197055.1	1275317.2	EMF Plume	45	2	35	45
EMF-WF-35	197023.4	1275260.0	EMF Plume	45	2	35	45
EMF-WF-36	197446.4	1275756.3	EMF Plume	50	2	40	50
EMF-WF-41			EMF Plume	70	2	60	70
EMF-IW-5	196874.0	1275114.0	EMF Plume	40	4	30	40
EMF-IW-6	196851.7	1275138.5	EMF Plume	40	4	30	40
EMF-IW-8	197411.2	1275637.1	EMF Plume	49	4	39	49
EMF-IW-9	197388.8	1275661.9	EMF Plume	49	4	39	49
EMF-IW-10	197367.0	1275685.1	EMF Plume	50	4	40	50
EMF-IW-11	197345.9	1275708.4	EMF Plume	50	4	40	50
EMF-IW-37	196916.7	1275066.2	EMF Plume	50	4	40	50
EMF-IW-38	196831.8	1275161.0	EMF Plume	50	4	40	50
EMF-IW-43	197304.8	1275744.2	EMF Plume	50	4	40	50

FIGURES



PLANT 2 WELL DECOMMISSIONING

PROJECT

THE BOEING COMPANY

PREPARED FOR

BOEING PLANT 2
SEATTLE/TUKWILA, WASHINGTON

LOCATION

DRAWN BY ARM

REVIEWED BY DCK

DATE 12/10/13

SHEET 1 OF 1

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

FIGURE 2A

WELL DECOMMISSIONING STATUS
AS OF DECEMBER 2013, SOUTH PLANT 2

BOEING PLANT 2

DUCT BANK ALIGNMENT

2-66 SHEETPILE

JORGENSEN FORGE FACILITY

DUWAMISH WATERWAY

PL2-321A PL2-332A PL2-325B PL2-325A PL2-039A PL2-002A PL2-002B PL2-002C PL2-022A PL2-033AR PL2-033A PL2-018A PL2-025A PL2-032A PL2-020A PL2-024A PL2-023A PL2-028B PL2-028A PL2-026B PL2-026A PL2-026C EW-1 PL2-019A PL2-012A PL2-011A PP-5B-O PP-5B-I PL2-021B PL2-013AR PL2-013B PL2-607A PL2-013C PL2-009B PL2-009A PL2-009C PL2-042AB PL2-042AA PL2-017A PP-3B-I PP-3C-I PP-3A-I DDC2-66-1D,S PL2-035A PL2-010A PP-4B-I PP-4B-O PP-2B PL2-034A PL2-007AR MW-51 PL2-JF04A PL2-005C PL2-005A PL2-005B PL2-004A PL2-027A PL2-006AR PP-1B-O PP-1B-I PL2-021A PL2-021C DDC2-66-1D,S PL2-036C PL2-036B PL2-036AR PL2-038A PL2-036A PL2-037A PL2-015B PL2-015A PL2-015BR PL2-015AR PL2-014AR PL2-014B PL2-014A PL2-013A PL2-029A PL2-030A PL2-030C PL2-043B PL2-040AB PL2-040AA PL2-041A PL2-041AA PL2-031A PL2-008C PL2-008B PL2-044B PP-2B-I MW-5 PL2-JF01AR PL2-JF01C PL2-JF01B PL2-JF02A

LEGEND

- WELLS THAT REMAIN
- DECOMMISSIONED WELLS
- PROPERTY BOUNDARY

0 30 60 120

SCALE: 1" = 120'

TRUE NORTH

PLANT NORTH

KEY:

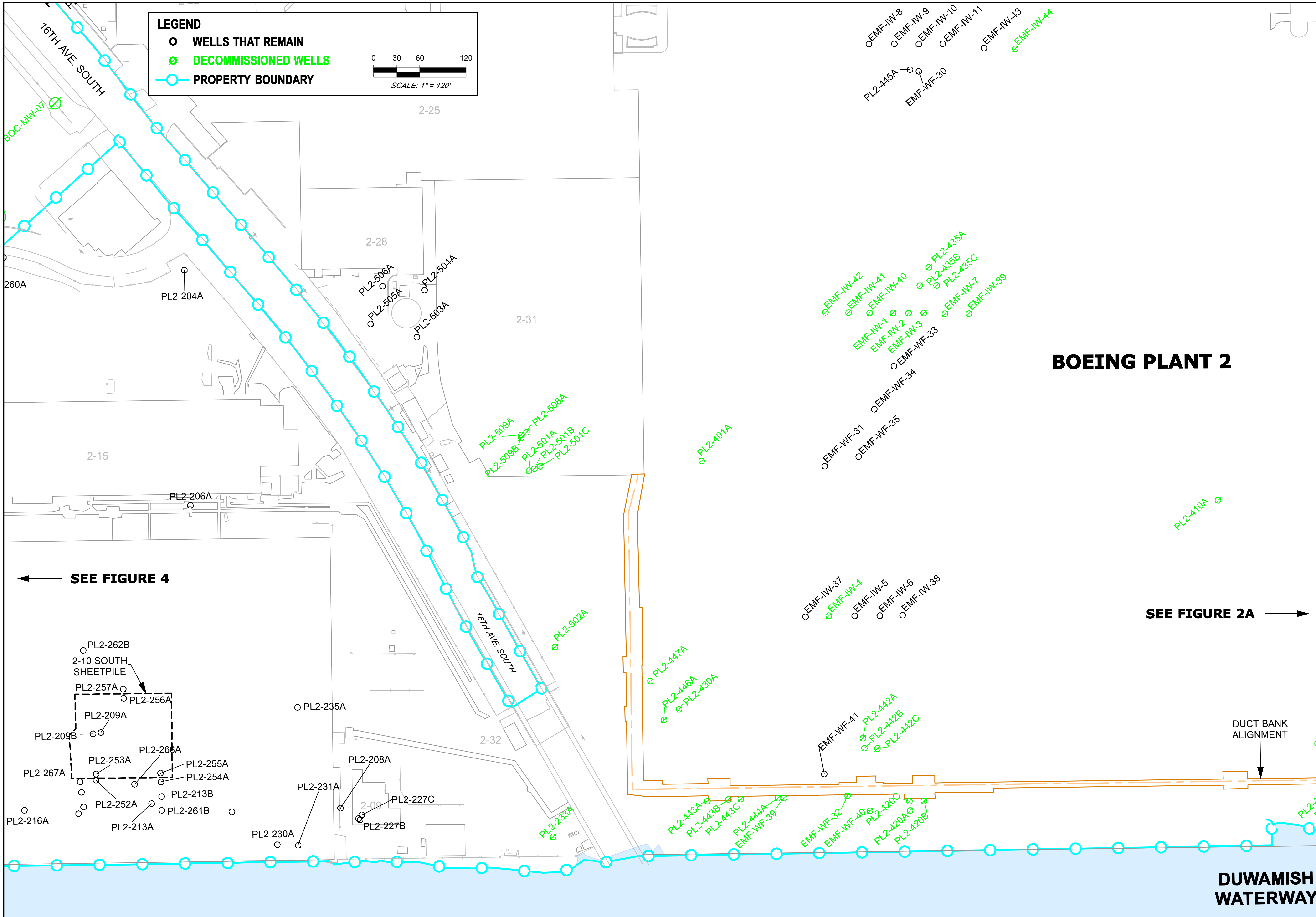
PROJECT	PLANT 2 WELL DECOMMISSIONING
PREPARED FOR	THE BOEING COMPANY
LOCATION	BOEING PLANT 2 SEATTLE/TUKWILA, WASHINGTON
SHEET	1 OF 1
DRAWN BY	ARM
REVIEWED BY	DCK
DATE	12/05/13

ENVIRONMENTAL PARTNERS INC

295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

FIGURE 2B

WELL DECOMMISSIONING
STATUS AS OF DECEMBER 2013,
SOUTH PLANT 2 ENLARGEMENT


LEGEND
WELLS THAT REMAIN
DECOMMISSIONED WELLS
PROPERTY BOUNDARY
0 30 60 120
SCALE: 1" = 120'
16TH AVE. SOUTH
BOC-MW-07
2-25
2-28
2-31
2-15
2-32
2-09
260A
PL2-204A
PL2-206A
PL2-506A
PL2-505A
PL2-504A
PL2-503A
PL2-509A
PL2-509B
PL2-508A
PL2-501A
PL2-501B
PL2-501C
PL2-401A
PL2-502A
PL2-447A
PL2-446A
PL2-430A
PL2-233A
EMF-IW-8
EMF-IW-9
EMF-IW-10
EMF-IW-11
EMF-IW-43
EMF-IW-44
PL2-445A
EMF-WF-30
EMF-IW-42
EMF-IW-41
EMF-IW-40
PL2-435A
PL2-435B
PL2-435C
EMF-IW-7
EMF-IW-39
EMF-IW-1
EMF-IW-2
EMF-IW-3
EMF-WF-33
EMF-WF-34
EMF-WF-31
EMF-WF-35
BOEING PLANT 2
PL2-410A
SEE FIGURE 4
SEE FIGURE 2A
EMF-IW-37
EMF-IW-4
EMF-IW-5
EMF-IW-6
EMF-IW-38
EMF-WF-41
PL2-442A
PL2-442B
PL2-442C
DUCT BANK
ALIGNMENT
PL2-443A
PL2-443B
PL2-443C
PL2-444A
EMF-WF-39
EMF-WF-32
EMF-WF-40
PL2-420C
PL2-420A
PL2-420B
PL2-425B
PL2-262B
2-10 SOUTH
SHEETPILE
PL2-257A
PL2-256A
PL2-209A
PL2-209B
PL2-266A
PL2-253A
PL2-255A
PL2-254A
PL2-267A
PL2-213B
PL2-252A
PL2-261B
PL2-216A
PL2-213A
PL2-235A
PL2-208A
PL2-231A
PL2-227C
PL2-227B
PL2-230A
DUWAMISH
WATERWAY

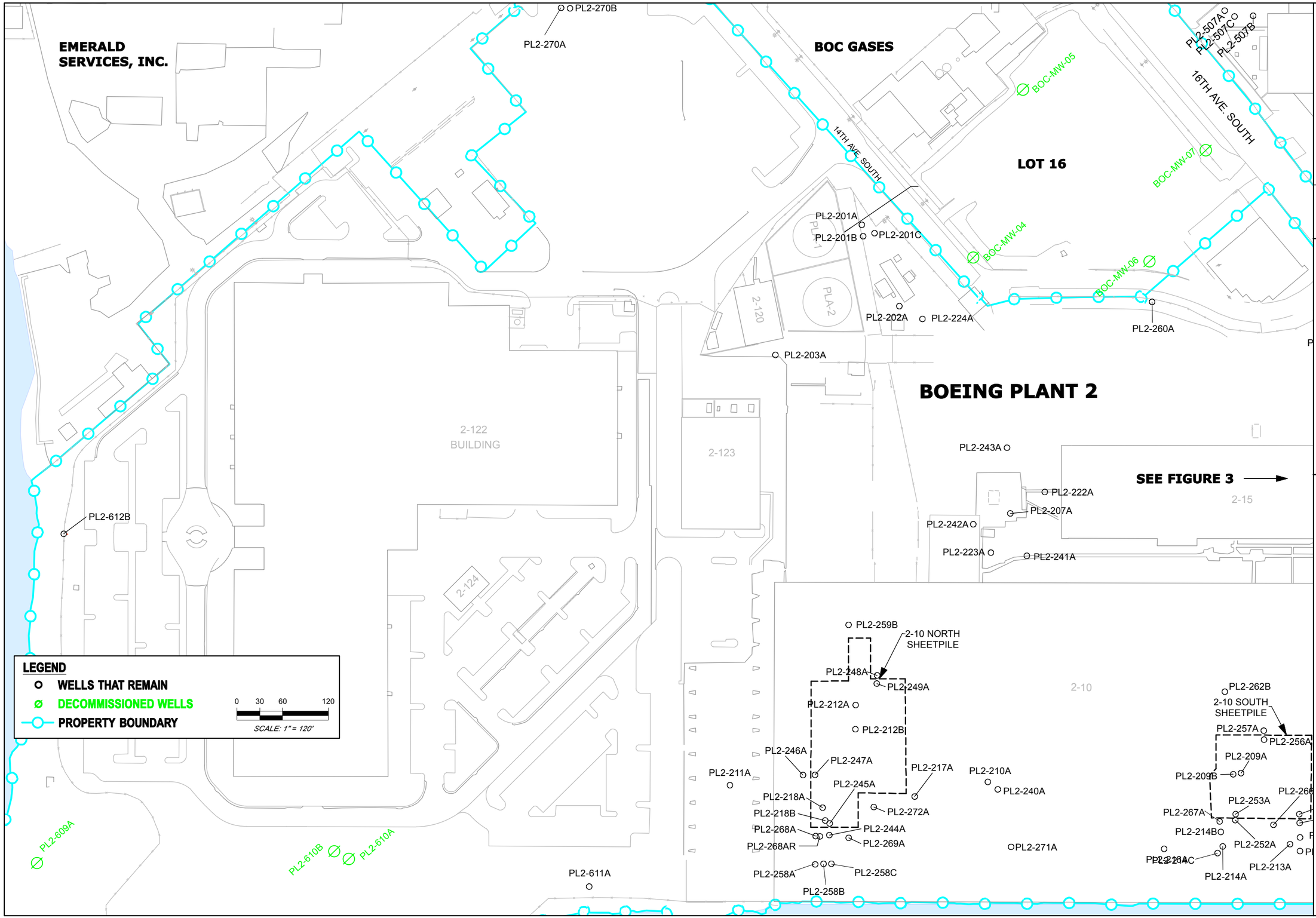
KEY:

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

FIGURE 3

WELL DECOMMISSIONING STATUS
AS OF DECEMBER 2013, CENTRAL PLANT 2

PROJECT	PLANT 2 WELL DECOMMISSIONING
PREPARED FOR	THE BOEING COMPANY
LOCATION	BOEING PLANT 2 SEATTLE/TUKWILA, WASHINGTON
SHEET	1 OF 1
DRAWN BY	ARM
REVIEWED BY	DCK
DATE	12/10/13



PROJECT: PLANT 2 WELL DECOMMISSIONING
PREPARED FOR: THE BOEING COMPANY
LOCATION: BOEING PLANT 2 SEATTLE/TUKWILA, WASHINGTON
SHEET: 1 OF 1
DRAWN BY: ARM
REVIEWED BY: DCK
DATE: 12/10/13

ENVIRONMENTAL PARTNERS INC
295 NE Gilman Boulevard, Suite 201
Issaquah, Washington 98027

FIGURE 4

WELL DECOMMISSIONED IN LOT 16 AND THE NORTH AREA

KEY:

Attachment A – Well Decommissioning Field Books (CD ROM only)

Attachment B – Ecology Well Decommissioning Forms (CD ROM only)